

Abstract of the Disclosure

A radio frequency device has an antenna for capturing an incoming signal for processing by the device or for radiating an outgoing signal from the device and a signal processor having one or
5 more synchronous oscillators responsive to an input signal for providing an amplified output
signal without using much power. An application is a radio frequency (RF) transponder (tag) for
receiving an RF signal from an interrogator includes a tag antenna for receiving the RF signal
from the interrogator and a receiver section connected to the tag antenna wherein the receiver
consumes a significantly lower amount of power than conventional receiver technologies by using
10 one or more synchronous oscillators.